

Instructions for Using the Plan Review Crosswalk for Review of Local Mitigation Plans

Attached is a Plan Review Crosswalk based on the **Multi-Hazard Mitigation Planning Guidance Under the Disaster Mitigation Act of 2000**, published by FEMA, dated March 2004. This Plan Review Crosswalk is consistent with **44 CFR Part 201 – Mitigation Planning, Interim Final Rule** (the Rule), in accordance with the **Stafford Act** (42 U.S.C. 5165), and **44 CFR Part 78.5 – Flood Mitigation Plan Development**, in accordance with the **National Flood Insurance Act of 1968** (42 U.S.C. 4104c et seq).

SCORING SYSTEM

N – Needs Improvement: The plan does not meet the minimum for the requirement. Reviewer's comments must be provided.

S – Satisfactory: The plan meets the minimum for the requirement. Reviewer's comments are encouraged, but not required.

Each requirement includes separate elements. All elements of a requirement must be rated "Satisfactory" in order for the requirement to be fulfilled and receive a summary score of "Satisfactory." A "Needs Improvement" score on elements shaded in gray (recommended but not required) will not preclude the plan from passing.

When reviewing single jurisdiction plans, reviewers may want to put an N/A in the boxes for multi-jurisdictional plan requirements. When reviewing multi-jurisdictional plans, reviewers may want to put an N/A in the prerequisite box for single jurisdiction plans.

States that have additional requirements can add them in the appropriate sections of the *Multi-Hazard Mitigation Planning Guidance* or create a new section and modify this Plan Review Crosswalk to record the score for those requirements.

Optional matrices for assisting in the review of sections on profiling hazards, assessing vulnerability, and identifying and analyzing mitigation actions are found at the end of the Plan Review Crosswalk.

The example below illustrates how to fill in the Plan Review Crosswalk.

Example

Assessing Vulnerability: Overview

- Multihazard Requirement §201.6(c)(2)(ii):** *[The risk assessment shall include a] description of the jurisdiction's vulnerability to the hazards described in paragraph (c)(2)(i) of this section. This description shall include an overall summary of each hazard and its impact on the community.*
- FMA Requirement §78.5(b):** *Description of the existing flood hazard and identification of the flood risk, ..., and the extent of flood depth and damage potential.*

Element	Location in the Plan (section or annex and page #)	Reviewer's Comments	SCORE			
			Stafford		FMA	
			N	S	N	S
A. Does the plan include an overall summary description of the jurisdiction's vulnerability to each hazard?	Section II, pp. 4-10	The plan describes the types of assets that are located within geographically defined hazard areas as well as those that would be affected by winter storms.		✓		✓
B. Does the plan address the impact of each hazard on the jurisdiction?	Section II, pp. 10-20	The plan does not address the impact of one of the five hazards addressed in the plan. Required Revisions: • Include a description of the impact of earthquakes on the assets. Recommended Revisions: • This information can be presented in terms of dollar value or percentages of damage.	✓			✓
SUMMARY SCORE			✓			✓

Jurisdiction: **GRANITE COUNTY, MONTANA**

Local Mitigation Plan Review and Approval Status

Jurisdiction: Granite County, MT	Title of Plan: Hazard Mitigation Plan	Date of Plan: November 2005
Local Point of Contact: Bart Bonney	Address: Granite County Courthouse P.O Box 395 220 N. Sansome Philpsburg, MT. 59858-0925	
Title: Granite County Disaster and Emergency Services Coordinator		
Agency: Granite County		
Phone Number: 406.859.2809	E-Mail: Bbonney_des@yahoo.com	

State Reviewer: Kent Atwood	Title: SHMO	Date: May 19, 2006
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FEMA Reviewer: Ken Crawford Jennifer Fee Wade Nofziger	Title: Hazard Mitigation Specialist Planner Hazard Mitigation Specialist	Date: June 1, 2006 June 19, 2006 June 30, 2006
Date Received in FEMA Region VIII	May 26, 2006	
Plan Not Approved		
Plan Approved	XXX	
Date Approved	July 11, 2006	

Jurisdiction:	NFIP Status*			
	Y	N	N/A	CRS Class
Town of Drummond (Good Standing – mapped 7/5/82)	X			
Town of Philipsburg (Good Standing – mapped 7/5/82)	X			
Granite County (Good Standing – mapped 7/5/82)	X			

* Notes: Y = Participating N = Not Participating N/A = Not Mapped

LOCAL MITIGATION PLAN REVIEW SUMMARY

The plan cannot be approved if the plan has not been formally adopted.

Each requirement includes separate elements. All elements of the requirement must be rated "Satisfactory" in order for the requirement to be fulfilled and receive a score of "Satisfactory." Elements of each requirement are listed on the following pages of the Plan Review Crosswalk. A "Needs Improvement" score on elements shaded in gray (recommended but not required) will not preclude the plan from passing. Reviewer's comments must be provided for requirements receiving a "Needs Improvement" score.

SCORING SYSTEM

Please check one of the following for each requirement.

N – Needs Improvement: The plan does not meet the minimum for the requirement.

Reviewer's comments must be provided.

S – Satisfactory: The plan meets the minimum for the requirement. Reviewer's comments are encouraged, but not required.

Prerequisite(s) (Check Applicable Box)

Adoption by the Local Governing Body:
§201.6(c)(5) and §78.5(f)

OR

Multi-Jurisdictional Plan Adoption: §201.6(c)(5)
and and §78.5(f) **AND**

Multi-Jurisdictional Planning Participation:
§201.6(a)(3) and and §78.5(a)

Planning Process

Documentation of the Planning Process:
§201.6(b) and §201.6(c)(1) and §78.5(a)

Risk Assessment

Identifying Hazards: §201.6(c)(2)(i) and §78.5(b)

Profiling Hazards: §201.6(c)(2)(i) and §78.5(b)

Assessing Vulnerability: Overview:
§201.6(c)(2)(ii) and §78.5(b)

Assessing Vulnerability: Identifying Structures:
§201.6(c)(2)(ii)(A) and §78.5(b)

Assessing Vulnerability: Estimating Potential
Losses: §201.6(c)(2)(ii)(B)

Assessing Vulnerability: Analyzing Development
Trends: §201.6(c)(2)(ii)(C)

Multi-Jurisdictional Risk Assessment:
§201.6(c)(2)(iii) and FEMA 299

STAFFORD		FMA	
NOT MET	MET	NOT MET	MET
	N/A		

	X		
	X		

N	S	N	S
	X		

N	S	N	S
	X		
	X		
	X		
	X		
	X		
	X		
	X		

Mitigation Strategy

Local Hazard Mitigation Goals: §201.6(c)(3)(i) and §78.5(c)

Identification and Analysis of Mitigation Actions:
§201.6(c)(3)(ii) and §78.5(d)

Implementation of Mitigation Actions:
§201.6(c)(3)(iii) and §78.5(d) and (e)

Multi-Jurisdictional Mitigation Actions:
§201.6(c)(3)(iv) and FEMA 299

STAFFORD		FMA	
N	S	N	S
	X		
	X		
	X		
	X		

Plan Maintenance Process

Monitoring, Evaluating, and Updating the Plan:
§201.6(c)(4)(i) and §78.5(e)

Incorporation into Existing Planning Mechanisms:
§201.6(c)(4)(ii)

Continued Public Involvement: §201.6(c)(4)(iii)

STAFFORD		FMA	
N	S	N	S
	X		
	X		
	X		

Additional State Requirements*

Insert State Requirement

Insert State Requirement

Insert State Requirement

STAFFORD		FMA	
N	S	N	S

LOCAL MITIGATION PLAN APPROVAL STATUS

PLAN NOT APPROVED

PLAN APPROVED

STAFFORD		FMA	

*States that have additional requirements can add them in the appropriate sections of the *Multi-Hazard Mitigation Planning Guidance* or create a new section and modify this Plan Review Crosswalk to record the score for those requirements.

See Reviewer's Comments

PREREQUISITE(S)

Adoption by the Local Governing Body

- **Multihazard Requirement §201.6(c)(5):** *[The local hazard mitigation plan **shall** include] documentation that the plan has been formally adopted by the governing body of the jurisdiction requesting approval of the plan (e.g., City Council, County Commissioner, Tribal Council).*
- **FMA Requirement §78.5(f):** *Documentation of formal plan adoption by the legal entity submitting the plan (e.g., Governor, Mayor, County Executive).*

Element	Location in the Plan (section or annex and page #)	Reviewer's Comments	SCORE			
			STAFFORD		FMA	
			NOT MET	MET	NOT MET	MET
A. Has the local governing body adopted the plan?	N/A					
B. Is supporting documentation, such as a resolution, included?	N/A					
SUMMARY SCORE				N/A		

Multi-Jurisdictional Plan Adoption

- **Multihazard Requirement §201.6(c)(5):** *For multi-jurisdictional plans, each jurisdiction requesting approval of the plan **must** document that it has been formally adopted.*
- **FMA Requirement §78.5(f):** *Documentation of formal plan adoption by the legal entity submitting the plan (e.g., Governor, Mayor, County Executive).*

Element	Location in the Plan (section or annex and page #)	Reviewer's Comments	SCORE			
			STAFFORD		FMA	
			NOT MET	MET	NOT MET	MET
A. Does the plan indicate the specific jurisdictions represented in the plan?	Section 1	The plan indicates that Granite County, the town of Drummond, and the town of Philipsburg are represented in the plan.		S		
B. For each jurisdiction, has the local governing body adopted the plan?	Section 1	Signed resolutions dated February-March 2005 are provided in the plan.		S		
C. Is supporting documentation, such as a resolution, included for each participating jurisdiction?	Section 1	Signed resolutions dated February-March 2005 are provided in the plan for all three participating jurisdictions.		S		
SUMMARY SCORE				S		

Multi-Jurisdictional Planning Participation

- **Multihazard Requirement §201.6(a)(3):** *Multi-jurisdictional plans (e.g., watershed plans) may be accepted, as appropriate, as long as each jurisdiction has participated in the process ... Statewide plans will not be accepted as multi-jurisdictional plans.*
- **FMA Requirement §78.5(a):** *Description of the planning process and public involvement. Public involvement **may** include workshops, public meetings, or public hearings.*

Element	Location in the Plan (section or annex and page #)	Reviewer's Comments	SCORE			
			STAFFORD		FMA	
			NOT MET	MET	NOT MET	MET
A. Does the plan describe how each jurisdiction participated in the plan's development?	3-1, Appendix B	The plan provides a discussion on the planning process on page 3-1. All jurisdictions, Granite County, Philipsburg, and Drummond were included in the list of stakeholders and attended the three public meetings that were held. Appendix B provides the meeting sign in sheets.		S		
SUMMARY SCORE				S		

PLANNING PROCESS:

Documentation of the Planning Process

- **Multihazard Requirement §201.6(b):** *An open public involvement process is essential to the development of an effective plan. In order to develop a more comprehensive approach to reducing the effects of natural disasters, the planning process **shall** include:*
 - (1) *An opportunity for the public to comment on the plan during the drafting stage and prior to plan approval;*
 - (2) *An opportunity for neighboring communities, local and regional agencies involved in hazard mitigation activities, and agencies that have the authority to regulate development, as well as businesses, academia and other private and non-profit interests to be involved in the planning process; and*
 - (3) *Review and incorporation, if appropriate, of existing plans, studies, reports, and technical information.*
- **Multihazard Requirement §201.6(c)(1):** *[The plan **shall** document] the planning process used to develop the plan, including how it was prepared, who was involved in the process, and how the public was involved.*
- **FMA Requirement §78.5(a):** *Description of the planning process and public involvement. Public involvement **may** include workshops, public meetings, or public hearings.*

Element	Location in the Plan (section or annex and page #)	Reviewer's Comments	SCORE			
			STAFFORD		FMA	
			N	S	N	S
A. Does the plan provide a narrative description of the process followed to prepare the plan?	3-1 Appendix A Appendix B	A narrative description of the planning process is well documented and includes news articles and sign-in sheets for all three meetings.		S		
B. Does the plan indicate who was involved in the planning process? (For example, who led the development at the staff level and were there any external contributors such as contractors? Who participated on the plan committee, provided information, reviewed drafts, etc.?)	3-1 Appendix A Appendix B	The plan was prepared by Big Sky Hazard Management LLC consulting firm, representatives from emergency management, fire services, medical and health officials, public works, State and Federal government, law enforcement, chief elected officials, administrative officials, news media and the public. Appendix A includes local news releases and articles of the planning process and Appendix B includes sign in sheets.		S		
C. Does the plan indicate how the public was involved? (Was the public provided an opportunity to comment on the plan during the drafting stage and prior to the plan approval?)	3-1 Appendix A Appendix B	The plan describes how the public was involved in great detail on page 3-1. Three public meetings were held. Appendix A includes local news releases and articles of the planning process and Appendix B includes sign in sheets.		S		
D. Was there an opportunity for neighboring communities, agencies, businesses, academia, nonprofits, and other interested parties to be involved	3-1 Appendix A Appendix B	Three meetings were held that were open to the public and to neighboring communities and other interested parties. News releases were provided to		S		

Element	Location in the Plan (section or annex and page #)	Reviewer's Comments	SCORE			
			STAFFORD		FMA	
			N	S	N	S
in the planning process?		local news papers, which discussed the process and announced meetings.				
E. Does the planning process describe the review and incorporation, if appropriate, of existing plans, studies, reports, and technical information?	4-1,4-2	The plan does a great job of describing the review of plans, studies and technical information. The plan indicates, on page 4-1, that internet research, available GIS data, subject matter experts and examination of existing plans were utilized to gather history of past events and possible future events. Table 4.1 lists the specific information reviewed for each hazard under the "How identified" column.		S		
SUMMARY SCORE				S		

RISK ASSESSMENT: §201.6(c)(2): *The plan shall include a risk assessment that provides the factual basis for activities proposed in the strategy to reduce losses from identified hazards. Local risk assessments must provide sufficient information to enable the jurisdiction to identify and prioritize appropriate mitigation actions to reduce losses from identified hazards.*

Identifying Hazards

Requirement §201.6(c)(2)(i): *[The risk assessment shall include a] description of the type ... of all natural hazards that can affect the jurisdiction.*

Element	Location in the Plan (section or annex and page #)	Reviewer's Comments	SCORE	
			N	S
A. Does the plan include a description of the types of all natural hazards that affect the jurisdiction? If the hazard identification omits (without explanation) any hazards commonly recognized as threats to the jurisdiction, this part of the plan cannot receive a Satisfactory score. Consult with the State Hazard Mitigation Officer to identify applicable hazards that may occur in the planning area.	4-29-4-107	Table 4.1 is very good and provides a good depth and degree of analysis of critical facilities, costs of hazards, and population affected. Each hazard profile provides a description of the hazard potentially impacting the county and can be found on pages 4-29-4-107 The plan includes information for all identified hazards and in most cases the data used are more extensive than that found from readily available on-line resources. Refer to SHELDUS (www.sheldus.org) for additional information. No Flood Insurance Study is available for Granite County. http://msc.fema.gov/		S

		<p>National Inventory of Dams does not indicate any high hazard dams for Granite County. Please see http://crunch.tec.army.mil/nid/webpages/nid.cfm (introduction and download dam data) for National Dam Inventory information.</p> <p>Online EPA data suggests that there are no toxic release inventory sites in Granite County. Please see http://www.epa.gov/triexplorer/ for more information.</p>		
SUMMARY SCORE				S

Profiling Hazards

- **Multihazard Requirement §201.6(c)(2)(i):** *[The risk assessment shall include a] description of the ... location and extent of all natural hazards that can affect the jurisdiction. The plan shall include information on previous occurrences of hazard events and on the probability of future hazard events.*
- **FMA Requirement §78.5(b):** *Description of the existing flood hazard and identification of the flood risk,, and the extent of flood depth and damage potential.*

Element	Location in the Plan (section or annex and page #)	Reviewer's Comments	SCORE			
			STAFFORD		FMA	
			N	S	N	S
A. Does the risk assessment identify the location (i.e., geographic area affected) of each natural hazard addressed in the plan?		The plan describes the geographical area of all identified hazards in great detail and can be found in the hazard profiles under the mapping section. Where hazard locations vary, a map is provided, which depicts the hazard locations. In addition the risk assessment section on page 4-108 summarizes hazard locations by jurisdiction.		S		
B. Does the risk assessment identify the extent (i.e., magnitude or severity) of each hazard addressed in the plan?	4-29-4-109	The magnitude of past events is highlighted in the hazard profiles and the risk assessment summary. Property impact, population impact, economic impact, future development impacts are included in Table 4.69. The plan also includes potential loss estimates for all identified hazards.		S		

C. Does the plan provide information on previous occurrences of each hazard addressed in the plan?	4-29-4-107	<p>Previous occurrences of each type of hazard are addressed in the hazard profiles.</p> <p>Recommended Revisions for the Five Year Update:</p> <p>It may be helpful to develop a table that lists location of hazard, date, time, magnitude, death, injuries, property damage and crop damage in addition to the narrative description.</p>		S		
D. Does the plan include the probability of future events (i.e., chance of occurrence) for each hazard addressed in the plan?	4-29-4-109	Each hazard profile contains a section on Probability, which addresses probability of future events. In addition, the Risk Assessment Summary also contains information on the probability of future occurrences.		S		
SUMMARY SCORE				S		

Assessing Vulnerability: Overview

- **Multihazard Requirement §201.6(c)(2)(ii):** *[The risk assessment **shall** include a] description of the jurisdiction's vulnerability to the hazards described in paragraph (c)(2)(i) of this section. This description **shall** include an overall summary of each hazard and its impact on the community.*
- **FMA Requirement §78.5(b):** *Description of the existing flood hazard and identification of the flood risk, ..., and the extent of flood depth and damage potential.*

Element	Location in the Plan (section or annex and page #)	Reviewer's Comments	SCORE			
			STAFFORD		FMA	
			N	S	N	S
A. Does the plan include an overall summary description of the jurisdiction's vulnerability to each hazard?	4-29-4-109	The plan does a great job at discussing vulnerability. Each identified hazard has a vulnerability section that discusses critical facilities, potential losses, potential population impacts, and impact of future development. In addition each identified hazard has a section on probability, which also addresses vulnerability.		S		
B. Does the plan address the impact of each hazard on the jurisdiction?	4-29-4-109	The hazard profiles identify past events and provide time periods and a general description of the event. The plan would be enhanced if the history sections found within each of the identified hazards included: location, loss structures, injuries, deaths, and costs. Recommended Revisions for the Five Year Update: Please include location, loss structures, injuries, deaths, and costs in the history section of the hazard profiles.		S		
SUMMARY SCORE				S		

Assessing Vulnerability: Identifying Structures

- **Multihazard Requirement §201.6(c)(2)(ii)(A):** *The plan **should** describe vulnerability in terms of the types and numbers of existing and future buildings, infrastructure, and critical facilities located in the identified hazard area*
- **FMA Requirement §78.5(b):** *Description of the existing flood hazard and identification of the flood risk, including **estimates of the number and type of structures at risk, repetitive loss properties**,....*

Element	Location in the Plan (section or annex and page #)	Reviewer's Comments	SCORE			
			STAFFORD		FMA	
			N	S	N	S
A. Does the plan describe vulnerability in terms of the types and numbers of existing buildings (including repetitive loss structures) , infrastructure, and critical facilities located in the identified hazard areas?	4-3-4-6, 4-29-4-109	The plan does an excellent job of discussing vulnerable structures for each identified hazard. Each hazard profile lists critical facilities likely affected and also includes an estimate of vulnerable structures, value, potential losses, and other estimates exposures. Note: A "Needs Improvement" score on this requirement will not preclude the plan from passing.		S		
B. Does the plan describe vulnerability in terms of the types and numbers of future buildings , infrastructure, and critical facilities located in the identified hazard areas?	4-29-4-109	The plan includes a section on Impact of Future development, which discusses future development in relation to each identified hazard. In addition, the plan has a section on potential population impacts, which discusses number of structures and numbers of population at risk when applicable. Note: A "Needs Improvement" score on this requirement will not preclude the plan from passing.		S		
SUMMARY SCORE				S		

Assessing Vulnerability: Estimating Potential Losses

- **Multihazard Requirement §201.6(c)(2)(ii)(B):** *[The plan **should** describe vulnerability in terms of an] estimate of the potential dollar losses to vulnerable structures identified in paragraph (c)(2)(i)(A) of this section and a description of the methodology used to prepare the estimate*

Element	Location in the Plan (section or annex and page #)	Reviewer's Comments	SCORE			
			STAFFORD		FMA	
			N	S	N	S
A. Does the plan estimate potential dollar losses to vulnerable structures?	4-29-4-109	<p>The plan does include a section on Potential Losses and some of the hazard profiles, Dams, Floods, and Fire include dollar amounts and number of structures potential impacted.</p> <p>Recommended Revisions:</p> <p>Include, when resources permit, estimates for structure, contents, and function losses to present a full picture of the total loss for each building, infrastructure, and critical facility.</p> <p>Note: A "Needs Improvement" score on this requirement will not preclude the plan from passing.</p>		S		
B. Does the plan describe the methodology used to prepare the estimate?	4-28	<p>The plan provides an in depth discussion on the methodology used to prepare the estimates. The estimates were prepared by using a combination of GIS analysis and estimations. In addition population impacts were assessed based on the percentage of the population estimated in the hazard area.</p> <p>Note: A "Needs Improvement" score on this requirement will not preclude the plan from passing.</p>		S		
SUMMARY SCORE				S		

Assessing Vulnerability: Analyzing Development Trends

- **Multihazard Requirement §201.6(c)(2)(ii)(C):** *[The plan **should** describe vulnerability in terms of] providing a general description of land uses and development trends within the community so that mitigation options can be considered in future land use decisions.*

Element	Location in the Plan (section or annex and page #)	Reviewer's Comments	SCORE			
			STAFFORD		FMA	
			N	S	N	S
A. Does the plan describe land uses and development trends?	4-22-4-27	Land Use and development trends are discussed on page 4-22. Population projections are also included as well as land use maps. The plan indicates that Granite County Policy Plan is being created to regulate subdivision development in regards to hazards. In addition, the hazards profiles include a section on Impact of Future Development, which discusses development in relation to identified hazards. Note: A "Needs Improvement" score on this requirement will not preclude the plan from passing.		S		
SUMMARY SCORE				S		

Multi-Jurisdictional Risk Assessment

- **Multihazard Requirement §201.6(c)(2)(iii):** *For multi-jurisdictional plans, the risk assessment **must** assess each jurisdiction's risks where they vary from the risks facing the entire planning area.*
- **FMA FEMA 299 Guidance:** *The Plan should be coordinated with, and ideally developed in cooperation with, all of the local jurisdictions within the geographical area.*

Element	Location in the Plan (section or annex and page #)	Reviewer's Comments	SCORE			
			STAFFORD		FMA	
			N	S	N	S
A. Does the plan include a risk assessment for each participating jurisdiction as needed to reflect unique or varied risks?	4-29-4-109	<p>The plan does include discussions, found within the hazard profiles, which discuss locations that the hazard will most likely affect. In addition the table found on page 4-108 includes a summary of hazards, which suggest that the identified hazards can impact all three jurisdictions equally, with the exception of hazardous material release.</p> <p>Note: A "Needs Improvement" score on this requirement will not preclude the FMA plan from passing.</p>		S		
SUMMARY SCORE				S		

MITIGATION STRATEGY: §201.6(c)(3): *The plan shall include a mitigation strategy that provides the jurisdiction's blueprint for reducing the potential losses identified in the risk assessment, based on existing authorities, policies, programs and resources, and its ability to expand on and improve these existing tools.*

Local Hazard Mitigation Goals

- **Multihazard Requirement §201.6(c)(3)(i):** *[The hazard mitigation strategy shall include a] description of mitigation goals to reduce or avoid long-term vulnerabilities to the identified hazards.*
- **FMA Requirement §78.5(c):** *The applicant's floodplain management goals for the area covered by the plan.*

Element	Location in the Plan (section or annex and page #)	Reviewer's Comments	SCORE			
			STAFFORD		FMA	
			N	S	N	S
A Does the plan include a description of mitigation goals to reduce or avoid long-term vulnerabilities to the identified hazards? (GOALS are long-term; represent what the community wants to achieve, such as "eliminate flood damage"; and are based on the risk assessment findings.)	5-1,5-2	The plan lists eight goals directly related to mitigation.		S		
SUMMARY SCORE				S		

Identification and Analysis of Mitigation Actions

- **Multihazard Requirement §201.6(c)(3)(ii):** *[The mitigation strategy shall include a] section that identifies and analyzes a comprehensive range of specific mitigation actions and projects being considered to reduce the effects of each hazard, with particular emphasis on new and existing buildings and infrastructure.*
- **FMA Requirement §78.5(d):** *Identification and evaluation of cost-effective and technically feasible mitigation actions considered.*

Element	Location in the Plan (section or annex and page #)	Reviewer's Comments	SCORE			
			STAFFORD		FMA	
			N	S	N	S
A. Does the plan identify and analyze a comprehensive range of specific mitigation actions and projects for each hazard?	5-1,5-2	The plan identifies and analyzes a broad range of mitigation measures.		S		
B Do the identified actions and projects address reducing the effects of hazards on new buildings and infrastructure?	5-1,5-2	The plan includes projects that address reducing effects of hazards on new buildings, which are to revise subdivision regulations and to increase capacity of culverts in specific locations.		S		

C. Do the identified actions and projects address reducing the effects of hazards on existing buildings and infrastructure?	5-1,5-2	The plan includes projects that would protect existing buildings and infrastructure. These projects include creating defensible space around structures that are susceptible to fire and retrofit governmental buildings, to reduce losses from earthquakes.		S		
SUMMARY SCORE				S		

Implementation of Mitigation Actions

- **Multihazard Requirement: §201.6(c)(3)(iii):** *[The mitigation strategy section **shall** include] an action plan describing how the actions identified in section (c)(3)(ii) will be prioritized, implemented, and administered by the local jurisdiction. Prioritization **shall** include a special emphasis on the extent to which benefits are maximized according to a cost benefit review of the proposed projects and their associated costs.*
- **FMA Requirement §78.5(d):** *Identification and evaluation of cost-effective and technically feasible mitigation actions considered; and*
- **FMA Requirement §78.5(e):** *Presentation of the strategy for reducing flood risks and continued compliance with the NFIP, and procedures for ensuring implementation, reviewing progress, and recommending revisions to the plan.*

Element	Location in the Plan (section or annex and page #)	Reviewer's Comments	SCORE			
			STAFFORD		FMA	
			N	S	N	S
A. Does the mitigation strategy include how the actions are prioritized ? (For example, is there a discussion of the process and criteria used?)	5-3-5-5	The plan provides an excellent discussion on the methodology used to prioritize the actions. The plan indicates that a numerical system was used in conjunction to factors that were created to help score the actions, which included cost, feasibility, population benefit, property benefit, and hazard rating.		S		
B. Does the mitigation strategy address how the actions will be implemented and administered ? (For example, does it identify the responsible department, existing and potential resources, and timeframe?)	5-6-5-7	The plan includes a detailed table that lists the project description, jurisdiction, responsible department, timeframes, and potential funding source. The plan indicates that the projects will be accomplished as funding becomes available.		S		
B.1. Does the mitigation strategy address continued		See above.				S

compliance with the NFIP?						
C. Does the prioritization process include an emphasis on the use of a cost-benefit review (see page 3-36 of <i>Multi-Hazard Mitigation Planning Guidance</i>) to maximize benefits?	5-3-5-5	The plan includes a discussion on putting an emphasis on benefits compared to costs. Table 5.1 lists projects and provides a scale of low to high for cost, population benefit, and property benefit.		S		
C.1. Does the mitigation strategy emphasize cost-effective and technically feasible mitigation actions?		See above.				S
SUMMARY SCORE				S		S

Multi-Jurisdictional Mitigation Actions

- **Multihazard Requirement §201.6(c)(3)(iv):** *For multi-jurisdictional plans, there **must** be identifiable action items specific to the jurisdiction requesting FEMA approval or credit of the plan.*
- **FMA FEMA 299 Guidance:** *The Plan should be coordinated with, and ideally developed in cooperation with, all of the local jurisdictions within the geographical area.*

Element	Location in the Plan (section or annex and page #)	Reviewer's Comments	SCORE			
			STAFFORD		FMA	
			N	S	N	S
A Does the plan include at least one identifiable action item for each jurisdiction requesting FEMA approval of the plan?	5-6-5-7	All three participating jurisdictions are highlighted for mitigation actions for the identified natural hazards.		S		
SUMMARY SCORE				S		

PLAN MAINTENANCE PROCESS

Monitoring, Evaluating, and Updating the Plan

- **Multihazard Requirement §201.6(c)(4)(i):** *[The plan maintenance process **shall** include a] section describing the method and schedule of monitoring, evaluating, and updating the mitigation plan within a five-year cycle.*
- **FMA Requirement §78.5(e):** *Presentation of the strategy for reducing flood risks and continued compliance with the NFIP, and procedures for ensuring implementation, reviewing progress, and recommending revisions to the plan.*

Element	Location in the Plan (section or annex and page #)	Reviewer's Comments	SCORE			
			STAFFORD		FMA	
			N	S	N	S
A. Does the plan describe the method and schedule for monitoring the plan? (For example, does it identify the party responsible for monitoring and include a schedule for reports, site visits, phone calls, and meetings?)	6-1	The Granite County Local Emergency Planning Committee (LEPC) will be responsible for maintaining the plan. The co-lead for monitoring the plan is Montana Disaster Emergency Services Coordinator. A schedule includes three situations that would trigger the review of the plan.		S		
B. Does the plan describe the method and schedule for evaluating the plan? (For example, does it identify the party responsible for evaluating the plan and include the criteria used to evaluate the plan?)	6-1	The plan indicates that each year the Granite County DES Coordinator will send a notice of approval to Montana Disaster & Emergency Services. In addition every five years the plan will be submitted to the Montana DES and the Federal Emergency management Agency Regional Office for their approval. The next formal submission will be in December of 2010. The table on page 6-1 illustrates the schedule and update for the plan.		S		
C. Does the plan describe the method and schedule for updating the plan within the five-year cycle?	6-1	The plan indicates that every five years the plan will be submitted to the Montana DES and the Federal Emergency management Agency Regional Office for their approval.		S		
SUMMARY SCORE				S		

Incorporation into Existing Planning Mechanisms

- **Multihazard Requirement §201.6(c)(4)(ii):** *[The plan **shall** include a] process by which local governments incorporate the requirements of the mitigation plan into other planning mechanisms such as comprehensive or capital improvement plans, when appropriate.*

Element	Location in the Plan (section or annex and page #)	Reviewer's Comments	SCORE			
			STAFFORD		FMA	
			N	S	N	S
A. Does the plan identify other local planning mechanisms available for incorporating the requirements of the mitigation plan?	5-8	The plan does include other plans that the mitigation plan could be incorporated into. The planning initiatives identified are growth policies, capital improvement plans, zoning regulations, and subdivision regulations.		S		
B. Does the plan include a process by which the local government will incorporate the requirements in other plans, when appropriate?	5-8	<p>Marginal. The plan states, on page 5-8 that additional support for mitigation will be encouraged by the Granite County Planning Board and Fire Departments and through the improvements of subdivision regulations. However, the plan does not clearly describe how the local government will incorporate the requirements into other plans.</p> <p>Required Revisions for the Five Year Update:</p> <ul style="list-style-type: none"> • Be more definitive in describing the process to incorporate the mitigation plan requirements into local planning mechanisms. <p>For more information on integrating hazard mitigation activities in other initiatives, see <i>Bringing the Plan to Life</i> (FEMA 386-4), Step 2.</p>		S		
SUMMARY SCORE				S		

Continued Public Involvement

- **Multihazard Requirement §201.6(c)(4)(iii):** *[The plan maintenance process **shall** include a] discussion on how the community will continue public participation in the plan maintenance process.*

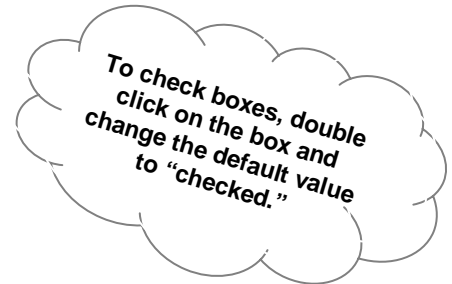
Element	Location in the Plan (section or annex and page #)	Reviewer's Comments	SCORE			
			STAFFORD		FMA	
			N	S	N	S
A. Does the plan explain how continued public participation will be obtained? (For example, will there be public notices, an on-going mitigation plan committee, or annual review meetings with stakeholders?)	6-1-6-2	Public meetings will be held annually at the November LEPC meeting to review the plan. Notices will be posted in the Philipsburg Mail newspaper. If needed, a special LEPC subcommittee will be developed to hold public meetings and coordinate plan changes and comments.		S		
SUMMARY SCORE				S		

Matrix A: Profiling Hazards

This matrix can assist FEMA and the State in scoring each hazard. Local jurisdictions may find the matrix useful to ensure that their plan addresses each natural hazard that can affect the jurisdiction. **Completing the matrix is not required.**

*Note: First, check which hazards are identified in requirement §201.6(c)(2)(i). Then, place a checkmark in either the N or S box for each **applicable** hazard. An “N” for any element of any identified hazard will result in a “Needs Improvement” score for this requirement. List the hazard and its related shortcoming in the comments section of the Plan Review Crosswalk.*

Hazard Type	Hazards Identified Per Requirement §201.6(c)(2)(i)	A. Location		B. Extent		C. Previous Occurrences		D. Probability of Future Events	
	Yes	N	S	N	S	N	S	N	S
Avalanche	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Coastal Erosion	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Coastal Storm	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Dam Failure	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Drought	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Earthquake	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Expansive Soils	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Extreme Heat	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Flood	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hailstorm	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hurricane	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Land Subsidence	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Landslide	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Severe Winter Storm	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tornado	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tsunami	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Volcano	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Wildfire	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Windstorm	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**Legend:**

§201.6(c)(2)(i) Profiling Hazards

- A. Does the risk assessment identify the location (i.e., geographic area affected) of each hazard addressed in the plan?
- B. Does the risk assessment identify the extent (i.e., magnitude or severity) of each hazard addressed in the plan?
- C. Does the plan provide information on previous occurrences of each natural hazard addressed in the plan?
- D. Does the plan include the probability of future events (i.e., chance of occurrence) for each hazard addressed in the plan?

Matrix B: Assessing Vulnerability

This matrix can assist FEMA and the State in scoring each hazard. Local jurisdictions may find the matrix useful to ensure that their plan addresses each requirement. **Completing the matrix is not required.**

*Note: First, check which hazards are identified in requirement §201.6(c)(2)(i). Then, place a checkmark in either the N or S box for each **applicable** hazard. An “N” for any element of any identified hazard will result in a “Needs Improvement” score for this requirement. List the hazard and its related shortcoming in the comments section of the Plan Review Crosswalk.*

Note: Receiving an N in the shaded columns will not preclude the plan from passing.

To check boxes, double click on the box and change the default value to “checked.”

Hazard Type	Hazards Identified Per Requirement §201.6(c)(2)(i)	A. Overall Summary Description of Vulnerability	B. Hazard Impact	A. Types and Number of Existing Structures in Hazard Area (Estimate)	B. Types and Number of Future Structures in Hazard Area (Estimate)	A. Loss Estimate	B. Methodology
	Yes						
Avalanche	<input type="checkbox"/>	§201.6(c)(2)(ii) Assessing Vulnerability: Overview	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Coastal Erosion	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Coastal Storm	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Dam Failure	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Drought	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Earthquake	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Expansive Soils	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Extreme Heat	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Flood	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hailstorm	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hurricane	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Land Subsidence	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Landslide	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Severe Winter Storm	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tornado	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tsunami	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Volcano	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Wildfire	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Windstorm	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other _____	<input type="checkbox"/>		§201.6(c)(2)(ii) Assessing Vulnerability: Identifying Structures	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other _____	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other _____	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Legend:

§201.6(c)(2)(ii) Assessing Vulnerability: Overview

- A. Does the plan include an overall summary description of the jurisdiction's vulnerability to each hazard?
- B. Does the plan address the impact of each hazard on the jurisdiction?

§201.6(c)(2)(ii)(A) Assessing Vulnerability: Identifying Structures

- A. Does the plan describe vulnerability in terms of the types and numbers of existing buildings, infrastructure, and critical facilities located in the identified hazard areas?

- B. Does the plan describe vulnerability in terms of the types and numbers of future buildings, infrastructure, and critical facilities located in the identified hazard areas?

§201.6(c)(2)(ii)(B) Assessing Vulnerability: Estimating Potential Losses

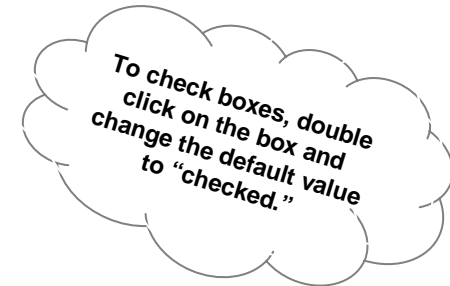
- A. Does the plan estimate potential dollar losses to vulnerable structures?
- B. Does the plan describe the methodology used to prepare the estimate?

Matrix C: Identification and Analysis of Mitigation Actions

This matrix can assist FEMA and the State in scoring each hazard. Local jurisdictions may find the matrix useful to ensure consideration of a range of actions for each hazard. **Completing the matrix is not required.**

*Note: First, check which hazards are identified in requirement §201.6(c)(2)(i). Then, place a checkmark in either the N or S box for each **applicable** hazard. An “N” for any identified hazard will result in a “Needs Improvement” score for this requirement. List the hazard and its related shortcoming in the comments section of the Plan Review Crosswalk.*

Hazard Type	Hazards Identified Per Requirement §201.6(c)(2)(i)	A. Comprehensive Range of Actions and Projects	
		Yes	N S
Avalanche	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Coastal Erosion	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Coastal Storm	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Dam Failure	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Drought	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Earthquake	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Expansive Soils	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Extreme Heat	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Flood	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hailstorm	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hurricane	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Land Subsidence	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Landslide	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Severe Winter Storm	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tornado	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tsunami	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Volcano	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Wildfire	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Windstorm	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**Legend:**

§201.6(c)(3)(ii) Identification and Analysis of Mitigation Actions

A. Does the plan identify and analyze a comprehensive range of specific mitigation actions and projects for each hazard?